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1. DHP13-009: A Software Tool to Assess Injury Risk Associated with Mechanical Exposures From Wearing Head Supported Mass

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop injury criteria, methodology, and a software tool to assess the risk of neck injury from loads sustained while wearing head supported mass. The software will characterize the hazards endemic to the ground combat environment and will be used to evaluate products and recommend less hazardous designs and usage scenarios. DESCRIPTION: It is imperative that equipment issued to S ...

SBIR Defense Health Program

2. u: A Source and Production Method for Acetyl-Triacylglycerols (ac-TAGs)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Biodiesel can substitute for conventional petroleum diesel in almost all applications. Oftentimes, use of biodiesel requires engine modification since biodiesel has different solvent properties and often degrades natural rubber. Since use of biodiesel is increasing rapidly, alternative biofuel supplies are needed to accommodate the growing demand. Michigan State Universitys GLBRC inventions provid ...

SBIR Department of Energy

3. AF131-028: A Text-Chat Based Natural Language Interface Toolkit

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Leverage results of synthetic teammate (intelligent agent) research to develop a text-chat based natural language interface toolkit that will facilitate the creation of constructive entities capable of functioning as teammates in training simulations. DESCRIPTION: Text-chat based communications are becoming ever more common in Air Force operations environmentsespecially Unmanned Ae ...

SBIR Air Force

4. DHP13-015: A Universal Device for Performing Cricothyrotomies

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop an all-in-one universal device for performing cricothyrotomies to more effectively manage airway trauma in the battlefield. DESCRIPTION: A cricothyrotomy (or cricothyroidotomy) is an emergency procedure to establish an airway in a patient when intubation attempts are unsuccessful due to acute injury to the head and/or neck. Establishing an airway and restoring oxygen- ...

SBIR Defense Health Program

5. 9.03.01.77-R: A Verifier for Multicore C11 or C++11 Code

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The 2011 ISO/IEC standards for C [1] (C11) and C++ [2] (C++11) introduced a portable, relaxed multithreaded memory model. Instead of guaranteeing sequential consistency [3] for all legal (data-race-free) programs, these standards allow each atomic shared memory operation to specify the degree of memory consistency it requires. The compiler has to add only the synchronization needed to achieve the ...

SBIR Department of Commerce

6. H-SB015.1-005: A Wearable Communications Hub Designed to Streamline and Improve First Responder Communication Capabilities

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a high-level, scalable next-generation architecture and prototype for an intelligent communications interface device (also referred to as a communications hub) that serves to interconnect wearable technologies (e.g., video camera, sensors, heads-up displays) and voice communication tools to an array of radio communication devices carried by a first responder. DESCRIPTION: Toda ...

SBIR Department of Homeland Security

7. N152-087: Ability for Electronic Kneeboard (EKB) to Communicate and Operate in a Multi- level Security Environment

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Electronic Kneeboard (EKB) is currently being developed to enable access to digital publications, tactical imagery, and other dynamic data in all USN and USMC aircraft. This capability will greatly enhance aircrew situational awareness, reduce cockpit clutter, improve precision fire, and enable in-flight mission re-planning. The warfighter would greatly benefit from a mobile platform capable o ...

SBIR NavyDepartment of Defense

8. X9.01: Ablative Thermal Protection Systems

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The technologies described below support the goal of developing higher performance ablative TPS materials for future Exploration missions. Developments are sought for ablative TPS materials and heat shield systems that exhibit maximum robustness, reliability and survivability while maintaining minimum mass requirements, and are capable of enduring severe combined convective and radiative heating, including: development of acreage (main body, non-leading edge) materials, adhesives, joints, penetrations, and seals. Three classes of materials will be required:

SBIR National Aeronautics and Space Administration

9. H7.01: Ablative Thermal Protection Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: ARC Participating Center(s): GRC, JPL, JSC, LaRC OCT Technology Area: TA14 The technologies described below support the goal of developing higher performance ablative TPS materials for higher performance future Exploration missions. Developments are sought for ablative TPS materials and heat shield systems that exhibit maximum robustness, reliability and survivability while maintaini ...

SBIR National Aeronautics and Space Administration

10. H7.01: Ablative Thermal Protection Systems Technologies, Sensors and NDE Methods

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):JSC,LaRC,GRC,JPLThe technologies described below support the goal of developing advancements in instrumentation systems, inspection techniques, and analytical modeling for the higher performance Ablative Thermal Protection Systems (TPS) materials currently in development for future Exploration missions. The ablative TPS materials currently in development incl ...

SBIR National Aeronautics and Space Administration

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